09903101

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1613SXW

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Jan 25	BLAST(R) searching in REGISTRY available in STN on the Web
NEWS	3	Jan 29	FSTA has been reloaded and moves to weekly updates
NEWS	4	Feb 01	DKILIT now produced by FIZ Karlsruhe and has a new update frequency
NEWS	5	Feb 19	Access via Tymnet and SprintNet Eliminated Effective 3/31/02
NEWS	6	Mar 08	Gene Names now available in BIOSIS
NEWS	7	Mar 22	TOXLIT no longer available
NEWS	8	Mar 22	TRCTHERMO no longer available
NEWS	9	Mar 28	US Provisional Priorities searched with P in CA/CAplus and USPATFULL
NEWS	10	Mar 28	LIPINSKI/CALC added for property searching in REGISTRY
NEWS	11	Apr 02	PAPERCHEM no longer available on STN. Use PAPERCHEM2 instead.
NEWS	12	Apr 08	"Ask CAS" for self-help around the clock
NEWS	13	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	14	Apr 09	ZDB will be removed from STN
NEWS	15	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	16	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	17	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	18	Apr 22	Federal Research in Progress (FEDRIP) now available

NEWS EXPRESS	February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 17:34:50 ON 03 MAY 2002

=> fil reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:34:54 ON 03 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

STRUCTURE FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7
DICTIONARY FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

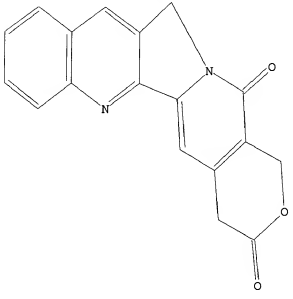
Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09903101.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

09903101

```
=> s l1 sss sam
SAMPLE SEARCH INITIATED 17:35:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    208 TO ITERATE

100.0% PROCESSED     208 ITERATIONS                          50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          3295 TO     5025
PROJECTED ANSWERS:             2956 TO     4604

L2            50 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 17:35:18 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3772 TO ITERATE

100.0% PROCESSED    3772 ITERATIONS                      3348 ANSWERS
SEARCH TIME: 00.00.01

L3          3348 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY     SESSION
FULL ESTIMATED COST                           140.28     140.49

FILE 'CAPLUS' ENTERED AT 17:35:25 ON 03 MAY 2002
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COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE COVERS 1907 - 3 May 2002  VOL 136 ISS 18
FILE LAST UPDATED: 1 May 2002  (20020501/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

=> s l3 full
L4          3330 L3
```

FILE 'HOME' ENTERED AT 17:42:03 ON 03 MAY 2002

=> fil reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:42:09 ON 03 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

STRUCTURE FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7
DICTIONARY FILE UPDATES: 1 MAY 2002 HIGHEST RN 410069-15-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 09903101b.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

```
=> fil casreact
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.76       0.97

FILE 'CASREACT' ENTERED AT 17:43:34 ON 03 MAY 2002
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
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Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1974 - 28 Apr 2002 VOL  ISS

Some records from 1974 to 1991 are derived from the ZIC/VINITI data file
and provided by InfoChem.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

Crossover limits have been increased.  See HELP RNCROSSOVER for details.

Structure search limits have been raised.  See HELP SLIMIT for the new,
higher limits.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 17:43:42 FILE 'CASREACT'
SCREENING COMPLETE -       4 REACTIONS TO VERIFY FROM       1 DOCUMENTS

100.0% DONE       4 VERIFIED        0 HIT RXNS                      0 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:          4 TO      199
PROJECTED ANSWERS:                0 TO        0

L2             0 SEA SSS SAM L1 (      0 REACTIONS)

=> s l1 full
FULL SEARCH INITIATED 17:43:49 FILE 'CASREACT'
SCREENING COMPLETE -     288 REACTIONS TO VERIFY FROM      52 DOCUMENTS

100.0% DONE     288 VERIFIED        0 HIT RXNS                      0 DOCS
SEARCH TIME: 00.00.01

L3             0 SEA SSS FUL L1 (      0 REACTIONS)
```
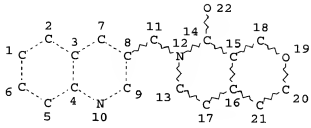

L8 HAS NO ANSWERS
L8 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 13 8
NUMBER OF NODES IS 22

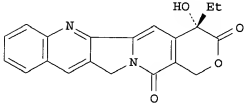
STEREO ATTRIBUTES: NONE

=> s l8 ful
FULL SEARCH INITIATED 10:18:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 206 TO ITERATE

100.0% PROCESSED 206 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L10 5 SEA SSS FUL L8

L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 2001:847228 CAPLUS
DN 136:118619
TI A Practical Six-Step Synthesis of (S)-Camptothecin
AU Comins, Daniel L.; Nolan, Jason M.
CS Department of Chemistry, North Carolina State University, Raleigh, NC, 27695-8204, USA
SO Organic Letters (2001), 3(26), 4255-4257
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
GI



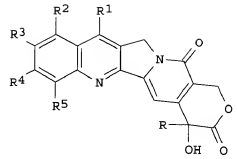
I

AB An asym. synthesis of (S)-camptothecin (I) has been accomplished in six steps starting from two com. available heterocycles.
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1996:35028 CAPLUS
DN 124:146559
TI Preparation of camptothecin intermediates and synthesis of camptothecin and comptothecin analogs
IN Comins, Daniel L.; Baevsky, Matthew F.
PA North Carolina State University, USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5475108	A	19951212	US 1993-114475	19930831
	US 5478943	A	19951226	US 1995-410729	19950327
PRAI	US 1993-114475		19930831		

OS CASREACT 124:146559; MARPAT 124:146559
GI



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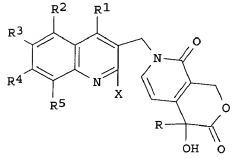


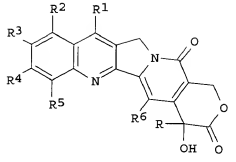
II

AB Camptothecin and camptothecin analogs I (R = loweralkyl; R1 = H, loweralkyl, loweralkoxy, halo; R2, R3, R4, R5 = H, amino, hydroxy, loweralkyl, lower alkoxy, lower alkylthio, di(lower alkyl)amino, cyano, methylenedioxy, formyl, nitro, halo, trifluoromethyl, aminomethyl, azido, amido, hydrazino, or any of the 29 std. amino acids bonded to the A ring via the amino-nitrogen atom) were prepd. by cyclizing II (X = Br, iodo) by an aryl-to-aryl free radical coupling reaction to yield a compd. Thus, 8-(2-bromo-3-quinolylmethyl)-2,7-dioxo-3-ethyl-3-hydroxy-3,6-dihydropyrido[5,4-c]pyran (II, X = Br), prepd. from 2,7-dioxo-3-ethyl-3-hydroxy-3,6-dihydropyrido[5,4-c]pyran and 2-bromo-3-(hydroxymethyl)quinoline, was cyclized by treatment with Bu3SnH in toluene contg. AIBN to give 55% (.+-.)-camptothecin.

L11 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1995:951497 CAPLUS
DN 124:56389
TI 14-Halocamptothecins
IN Comins, Daniel L.
PA North Carolina State University, USA
SO U.S., 9 pp. Cont.-in-part of U.S. 5, 428, 166.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5459269	A	19951017	US 1994-348452	19941202
	US 5212317	A	19930518	US 1992-900650	19920618
	US 5315007	A	19940524	US 1993-41782	19930401
	US 5428166	A	19950627	US 1994-226877	19940412
PRAI	US 1992-900650	A2	19920618		
	US 1993-41782	A2	19930401		
	US 1994-226877	A2	19940412		
	US 1990-632970	A2	19901220		

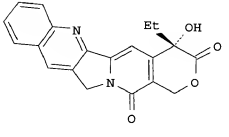
OS CASREACT 124:56389; MARPAT 124:56389
GI



I

AB Camptothecins I (R = alkyl, alkylaryl, hydroxyalkyl, aryl; R1 = H, alkyl, alkoxy, alkylaryl, hydroxyalkyl, haloalkyl, aminoalkyl, dialkylamino, dialkylaminoalkyl, cycloaminoalkyl, aryl, aryloxy, nitro, cyano, halo, C-glycal, alkylthio, carboxylate ester; R2-R5 = H, amino, hydroxy, (un)substituted alkyl, aryl, alkoxy, alkylthio, alkylamino C-glycal, cyano, formyl, nitro halo, azido, amido, hydrazino; R3 and R4 may form a 5- of 6-membered arom. or dioxolane ring; R6 = halo) and intermediates in their prepn. were prepd. Thus, 7-methoxycarbonyl-7-ethyl-9-hydroxy-7,9-dihydrofuranol[4,5-c]-6-methoxypyridine prepd. by treating 2-methoxypyridine with Me3CLi and 2-bromomesitylene followed by reaction with N-formyl-N,N',N'-trimethylethylenediamine, cerium trichloride and Me .alpha.-oxobutyrate, was treated with aluminum isopropoxide followed by hydrolysis to give 7,2-dioxo-3-ethyl-3-hydroxy-3,6-dihydropyrido[5,4-c]pyran, which chlorinated with N-chlorosuccinimide and treated with 2-bromo-3-(bromomethyl)quinoline followed by cyclization of the product to give (S)-14-chlorocamptothecin.

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1994:701123 CAPLUS
DN 121:301123
TI A Six-Step Synthesis of (.+-.)-Camptothecin
AU Comins, Daniel L.; Hong, Hao; Saha, Jayanta K.; Jianhua, Gao
CS Department of Chemistry, North Carolina State University, Raleigh, NC, 27695-8204, USA
SO J. Org. Chem. (1994), 59(18), 5120-1
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 121:301123
GI



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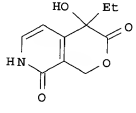
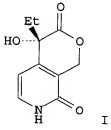


II

AB A six-step concise synthesis of (.+-.)-camptothecin (I) was achieved starting from 2-methoxypyridine and 2-bromoquinoline via hydroxylactone II and 2-bromo-3-(hydroxymethyl)quinoline.

L11 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1994:579942 CAPLUS
DN 121:179942
TI Asymmetric synthesis of camptothecin alkaloids: a nine-step synthesis of (S)-camptothecin
AU Comins, Daniel L.; Hong, Hao; Jianhua, Gao
CS Department of Chemistry, North Carolina State University, Raleigh, NC, 27695-8204, USA
SO Tetrahedron Lett. (1994), 35(30), 5331-4
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
GI



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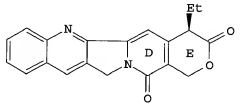
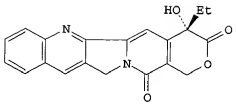


II

AB DE ring camptothecin intermediate I was prepd. enantioselectively from 2-chloro-6 hydroxypyridine in six steps and used in a nine-step synthesis of (S)-camptothecin (II).

L11 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1993:169399 CAPLUS
DN 118:169399
TI A 10-step, asymmetric synthesis of (S)-camptothecin
AU Comins, Daniel L.; Baevsky, Matthew F.; Hong, Hao
CS Dep. Chem., North Carolina State Univ., Raleigh, NC, 27695, USA
SO J. Am. Chem. Soc. (1992), 114(27), 10971-2
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
OS CASREACT 118:169399
GI



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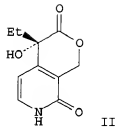
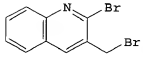
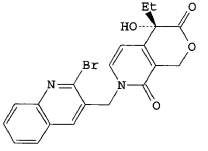


II



III



IV

AB A practical sym. synthesis of (S)-camptothecin (I) was accomplished in ten steps from com. available 2-chloro-6-methoxypyridine and 2-chloroquinoline. The synthesis is convergent, combining enantiopure hydroxylactone II with bromoquinoline III through N-alkylation to give the ABDE ring intermediate IV. The final step required closure of the C-ring, which was accomplished using Heck cyclization to give enantiopure (S)-camptothecin. The overall yield of I was 11%.

L11 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS
AN 1992:634326 CAPLUS
DN 117:234326
TI Preparation of camptothecin and analogs
IN Comins, Daniel L.; Baevsky, Matthew F.
PA North Carolina State University, USA
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9211263	A1	19920709	WO 1991-US9598	19911218
	W: CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	US 5162532	A	19921110	US 1990-632970	19901220
	CA 2112351	AA	19920709	CA 1991-2112351	19911218
	CA 2112351	C	19980210		
	EP 565621	A1	19931020	EP 1992-903792	19911218
	EP 565621	B1	20000705		
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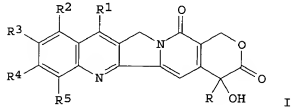
	JP 06504062	T2	19940512	JP 1991-503829	19911218
	EP 963988	A2	19991215	EP 1999-112300	19911218
	EP 963988	A3	20010711		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC				
	AT 194348	E	20000715	AT 1992-903792	19911218
	ES 2147728	T3	20001001	ES 1992-903792	19911218
	JP 2001055377	A2	20010227	JP 2000-224114	19911218
	JP 3141069	B2	20010305	JP 1992-503829	19911218
	US 5191082	A	19930302	US 1992-927217	19920810
	US 5200524	A	19930406	US 1992-927220	19920810
	US 5247089	A	19930921	US 1992-927219	19920810

	US 5243050	A	19930907	US 1992-969790	19921029
	US 5254690	A	19931019	US 1993-17026	19930212
	US 5321140	A	19940614	US 1993-17648	19930212
	JP 2001064257	A2	20010313	JP 2000-224113	20000725
	JP 3234828	B2	20011204		
PRAI	US 1990-632970	A1	19901220		
	EP 1992-903792	A3	19911218		
	JP 1992-503829	A3	19911218		
	WO 1991-US9598	W	19911218		
	US 1992-927217	A1	19920810		
	US 1992-927220	A3	19920810		

OS CASREACT 117:234326; MARPAT 117:234326

GI



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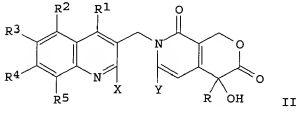

II

AB Title compds. (I; R = alkyl; R1 = H, alkyl, alkoxy, halo; R2-R5 = H, amino, OH, alkyl, alkoxy, alkylthio, dialkylamino, cyano, methylenedioxy, CHO, NO2, halo, CF3, aminomethyl, N3, amido, H2NNH, amino acid residue bonded via N atom) were prepd. by cyclization of intermediate II (X = halo; Y = H). Thus, 7-oxopyrido[5,4-c]-2-oxo-3-ethyl-3-hydroxy-3,6-dihydropyran (prepn. starting from 6-chloro-2-methoxypyridine given) was stirred 30 min with KOCMe3 in Me2CHOH at 25.degree.; 3-chloromethyl-2-iodoquinoline (prepn. from 2-iodo-3-quinolinecarboxaldehyde given) in MeOH was added dropwise and the resulting mixt. was heated at 75.degree. for 24 h to give 80% II (X = iodo, R = Et, R1 = R2 = R3 = R4 = R5 = H, Y = H). The latter was heated with K2CO3, Bu4NBr, and Pd(OAc)2 in MeCN at 90.degree. for 5 h to give 47% (.+-.)-camptothecin.